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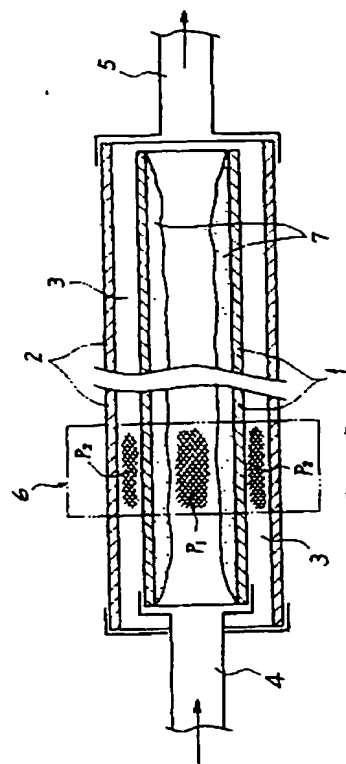
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APPLICANT : FURUKAWA ELECTRIC CO LTD:THE;

INVENTOR : YOSHIDA SUSUMU;

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TITLE : PRODUCTION OF OPTICAL GLASS
MATERIAL



ABSTRACT : PURPOSE: To deposit a glass layer efficiently on the inside circumferential surface of a glass pipe to be supplied therein with gaseous raw materials by a plasma CVD method by putting a heat resistant cylindrical body specially on the outside circumference of said glass pipe and heating the glass pipe from the inside and outside circumferences.

CONSTITUTION: A heat resistant cylindrical body 2 is put on the outside circumference of a glass pipe 1 via a spacing 3 and a plasma generator 6 is provided freely movably on the outside circumference of the body 2. Gaseous raw materials are supplied into the pipe 1 to generate plasmas P_1 , P_2 in the pipe 1 and the spacing 3. The gaseous raw materials are thermally decomposed by the heat of generation of the plasmas P_1 , P_2 and the fine powder of the glass which is the product of reaction deposits on the inside circumference of the pipe 1 and assumes a fused state, thereby forming a glass layer 7. After the glass layer of a prescribed thickness is formed, the pipe 1 is removed from the body 2 and the hollow part is erased by a collapsing treatment through oxyhydrogen flames, etc., whereby a bar-like optical glass material is obtained.

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